Pantel

HI SPEED DIGITAL WIRELESS OUTDOOR HDTV

Wireless LCD TV User Manual ATSC/NTSC Series Operation Manual

Operation Manual

Table of Contents

Important Safety Instructions

Electricity is used to perform many helpful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock or fire. To ensure your safety and prevent potential danger, please read the following precautions before using this product.

- Read these instructions.
- Heed all warnings.
- Do not use this HDTV near heater.
- Do not defeat the safety purpose of the polarized or grounding-type plug.
- Protect the power cord from being walked on or pinched particularly at plugs.
- Only use attachments/accessories specified by the manufacturer.
- This HDTV should be operated only from the type of power source indicated on the manual / marking label.
- Never push objects of any kind into this product through openings.

Supplied Accessories

Make sure the following accessories are provided with this product.

- Remote control unit
- CR2032 battery * 1
- Operation manual * 1
- Wireless Antenna * 2

HDTV Unit

Input and output interfaces:

Main Features

1. LCD Panel – 1366 x 768 resolution / 1920 x 1080 resolution
2. Input signal:

    RF signal * 1: NTSC, ATSC-8VSB, ATSC-QAM64/QAM256

    Color component (Y Pb/Cb Pr/Cr) * 1 + Audio L/R * 1

    S-Video * 1 + Audio L/R * 1

    CVBS * 1 + Audio L/R * 1(Video)

    VGA * 1 + Audio L/R * 1 (VGA input can be switched into component input mode) with Analog EDID

    HDMI * 1 + Audio L/R * 1 with Digital EDID. HDMI can be used in either PC or Video. The Audio input can be used in PC-DVI mode.

IR sensor

Control button * 6 + Power button

Vol-, Vol+, CH-, CH+, Source, Menu, Power

USB interface: support firmware upgrading.

RS-232 COM port: control mode.

AC Power input

3. Output signal:

   Line Out * 1

   Earphone * 1

   Internal speaker: 10W * 2

4. SD, HD support.

   RF signal can support: 480i, 480p, 720p, 1080i

   YPbPr interfaces can support 480i, 480p, 720p, 1080i. All ATSC Modes.

   HDMI interface can support 480i, 480p, 720p, 1080i, and DVI input resolution timing.

   VGA Interface can support   VESA Standard.

5. VGA DPMS function supported.

6. Preferred digital audio channel selection.

7. Brightness, Contrast, Color, Tint, Sharpness and Color Temperature control.

8. 3-D COMB filter support

9. 3:2 Pull Down.

10. Stretch of 4:3 to 16:9 aspect ratio.

11. Multi-language supported for OSD: English, Spanish, French

12. Program channel auto scan / manual settings.

13. Automatically detect digital or analog signal without user interference.

14. Video source selection

15. Parental control (TV rating and MPAA rating) for USA and Canada.

16. OpenV-Chip / Dynamic rating feature supported.

17. Closed caption support (CEA608B and CEA708B).

18. Sound output volume control

19. Analog Audio MTS (BTSC) supported. (SAP supported)

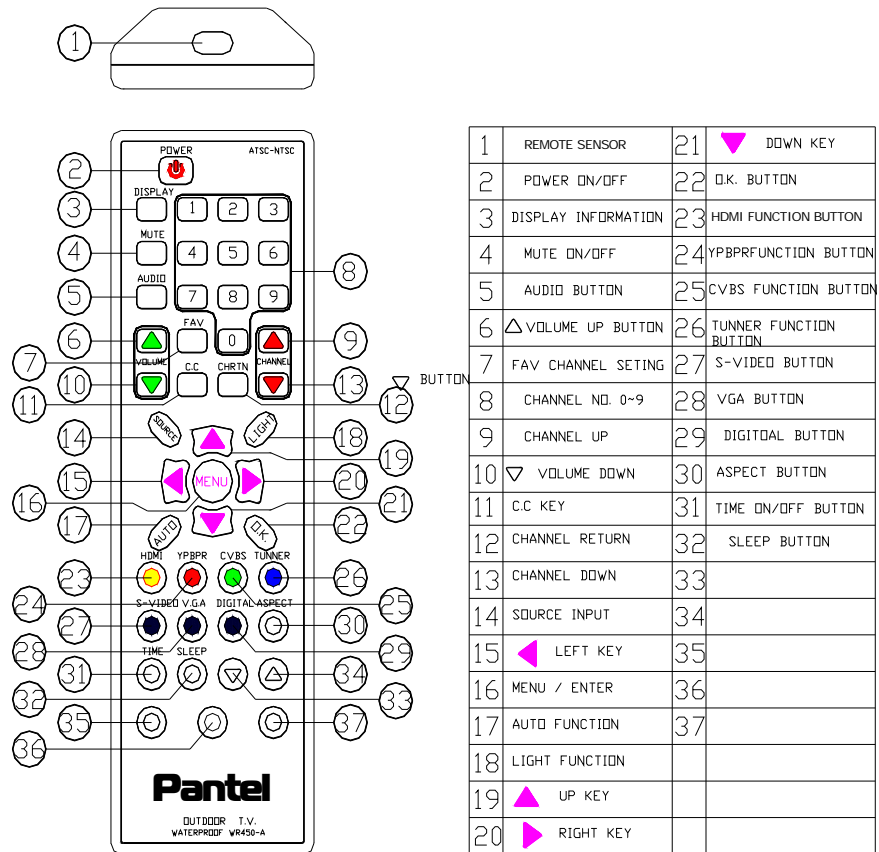20. Full function remote control

21. Scheduling power off (up to 120 minutes)

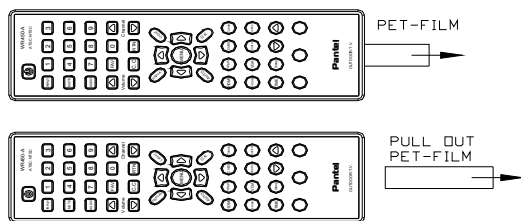22. 2 full function timers: Days of Week (Any Combination of 1 to 7 Days) to on and off.

23. Color Temperature Modes 6500ºK, 9300ºK, and Panel Native.

24. USB(UPDATA) firmware upgrade supported. Minimize service cost.
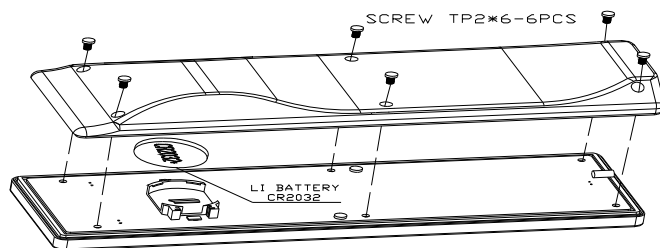
Waterproof Remote Control Unit WR450-A

#		#	
1	REMOTE SENSOR	21	▼ DOWN KEY
2	POWER ON/OFF	22	O.K. BUTTON
3	DISPLAY INFORMATION	23	HDMI FUNCTION BUTTON
4	MUTE ON/OFF	24	YPBPRFUNCTION BUTTON
5	AUDIO BUTTON	25	CVBS FUNCTION BUTTON
6	△VOLUME UP BUTTON	26	TUNNER FUNCTION BUTTON
7	FAV CHANNEL SETING	27	S-VIDEO BUTTON
8	CHANNEL NO. 0~9	28	VGA BUTTON
9	CHANNEL UP	29	DIGITOAL BUTTON
10	▽ VOLUME DOWN	30	ASPECT BUTTON
11	C.C KEY	31	TIME ON/OFF BUTTON
12	CHANNEL RETURN	32	SLEEP BUTTON
13	CHANNEL DOWN	33	
14	SOURCE INPUT	34	
15	◄ LEFT KEY	35	
16	MENU / ENTER	36	
17	AUTO FUNCTION	37	
18	LIGHT FUNCTION		
19	▲ UP KEY		
20	► RIGHT KEY		

"FOR THE FIRST TIME TO USE THIS REMOTE CONTROL, PLEASE PULL OUT THE PET FILM."

PET-FILM

PULL OUT
PET-FILM

WHEN THE BATTERY REQUIRES CHANGING, PLEASE FOLLOW THE DRAWING TO REMOVE SCREWS
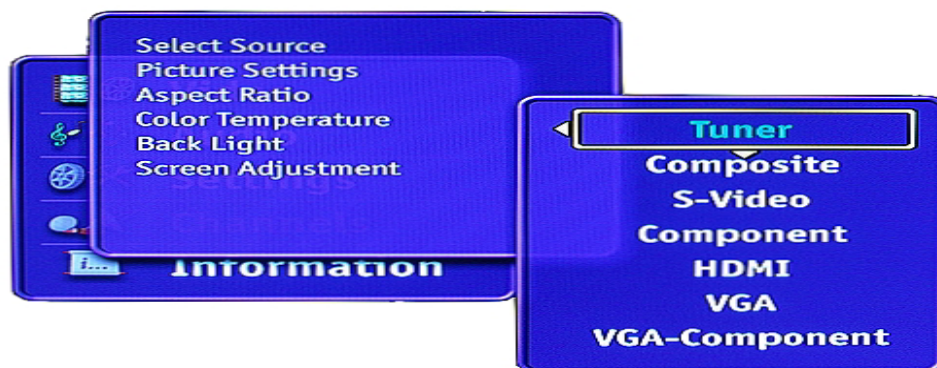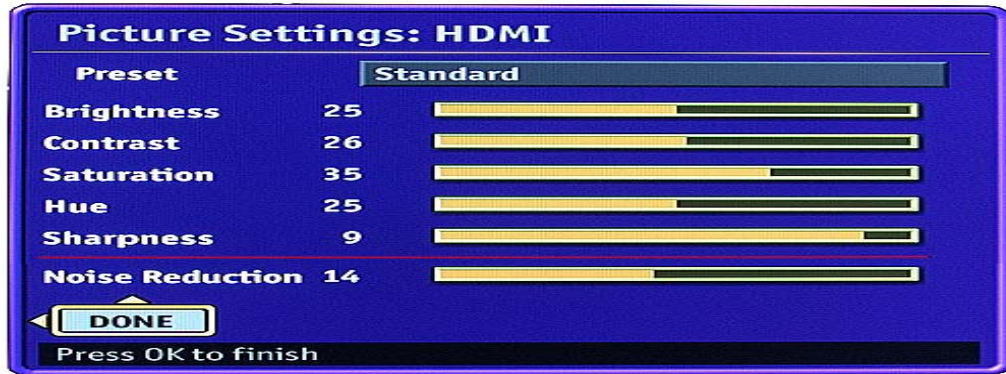

WR450 BATTERY CHANGE DRAWING
BATTERY NO.: CR2032

SCREW TP2*6-6PCS

LI BATTERY
CR2032
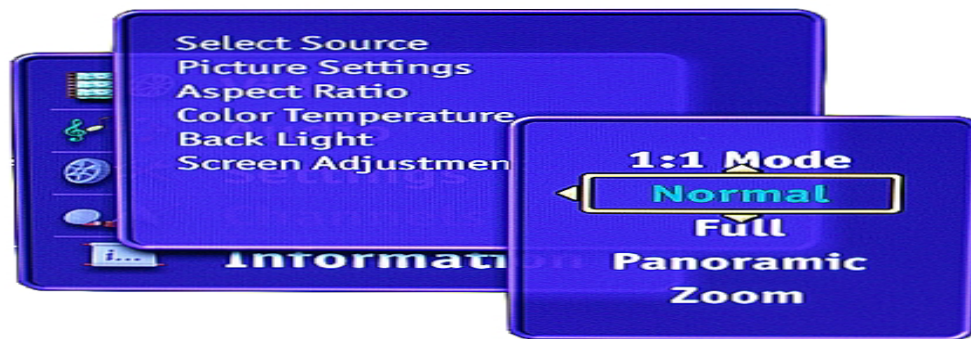
On Screen Display (OSD) Operations

Video	
Option	*Description*
Select Source	Select the video input source.
Picture Settings	Adjust the picture setting.
Aspect Ratio	Select the display aspect ratio.
Color Temperature	Select the color temperature.
Back Light	Adjust the backlight value.
Screen Adjustment	Adjust the picture position.

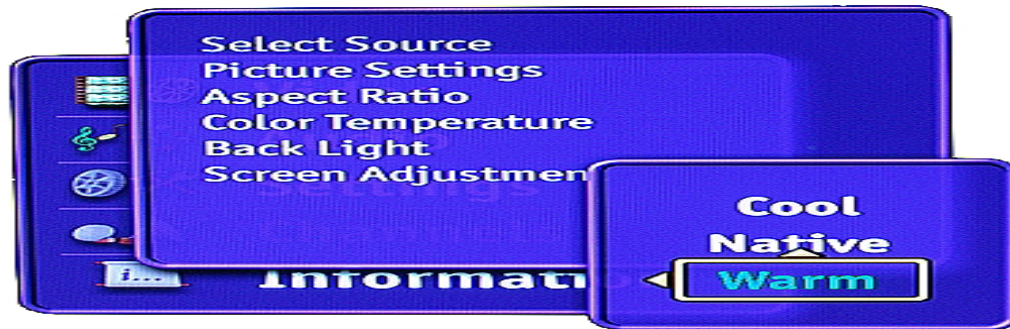| Video >Select Source	
Option	*Description*
Tuner	Select the tuner as the input source.
Composite	Select the composite (CVBS) as the input source
S-Video	Select the S-Video as the input source.
Component	Select the component (YPbPr) as the input source.
HDMI	Select the HDMI as the input source.
VGA	Select the VGA as the input source.
VGA-Component	Select the VGA-component as the input source.

Picture Settings: HDMI

Preset	Standard	
Brightness	25	
Contrast	26	
Saturation	35	
Hue	25	
Sharpness	9	
Noise Reduction	14	

DONE

Press OK to finish

Video >Picture Settings	
Option	**Description**
Preset	There are standard, vivid, movie, Pro and custom modes provided for usage.
Brightness	Adjust to brighten or darken the picture.
Contrast	Adjust to increase or decrease the contrast.
Saturation	Adjust to increase or decrease the saturation.
Hue	Adjust to increase or decrease the hue of the picture.
Sharpness	Adjust to sharpen or soften the picture.
Noise Reduction	Select to reduce the noise level of the picture.

Select Source
Picture Settings
Aspect Ratio
Color Temperature
Back Light
Screen Adjustment

Information

1:1 Mode
Normal
Full
Panoramic
Zoom

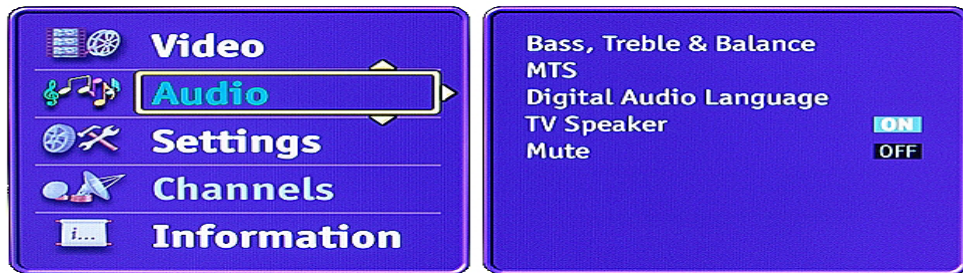| Video > Aspect Ratio	
Option	**Description**
1:1 Mode	Select to display the picture at the center with the same resolution as the input source.
Normal	Select to display the picture to fit the screen **without** distorting the aspect ratio.
Full	Select to display the picture to fill the screen.
Panoramic	Select to display the picture on the screen by linear scaling the center 50 % area and increase the scaling factor at 25% left and right sides.
Zoom	Select to display the enlarged picture.

Video > Color Temperature

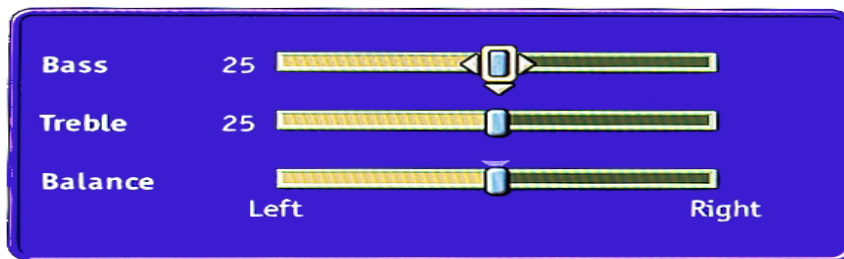| Option	Description
Cool	Select to give the white colors a bluish tint.
Native	Select to give the white colors a native tint.
Warm	Select to give the white colors a reddish tint.

Video > Back Light

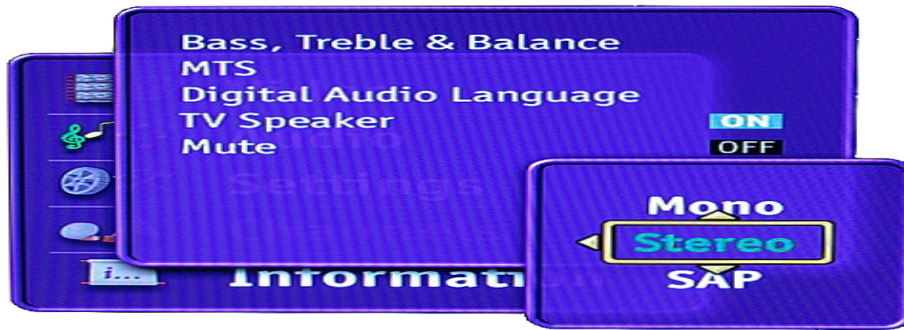| Option	Description
Bright Room	Select the bright backlight setting.
Dark Room	Select the dark backlight setting.
Medium Room	Select the native backlight setting.

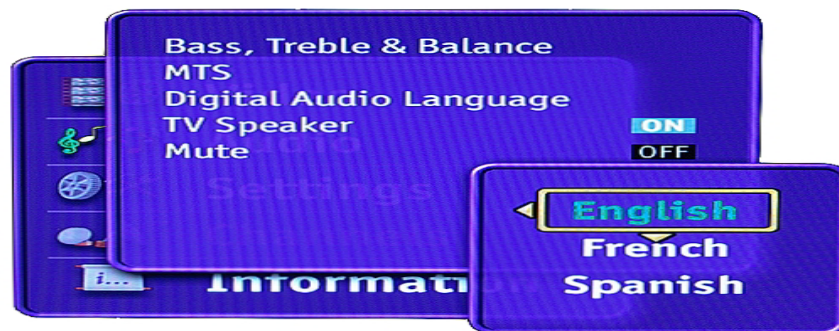| Video > Screen Adjustment	
Option	Description
Horizontal	Adjust the position of the picture left and right.
Vertical	Adjust the position of the picture up and down.
Phase	Adjust the distortion effects of horizontal wavy lines or ripples.
Auto Sync	Adjust the display position and phase of the picture automatically.

Audio	
Option	Description
Bass, Treble & Balance	Adjust the bass, treble level and the balance between the speakers.
MTS	Select the audio output mode: Mono, Stereo or SAP.
Digital Audio Language	Select the digital audio language.
TV Speaker	Select to turn on or turn off the TV speaker.
Mute	Mute the sound. Select again to release the mute.

Audio > Bass, Treble & Balance	
Option	Description
Bass	Adjust to increase or decrease lower-pitched sound.
Treble	Adjust to increase or decrease higher-pitched sound.
Balance	Adjust to emphasize left or right speaker balance.

Audio > MTS	
Option	Description
Mono	Select for mono reception.
Stereo	Select for stereo reception.
SAP	Select to automatically switch the TV to second audio program.

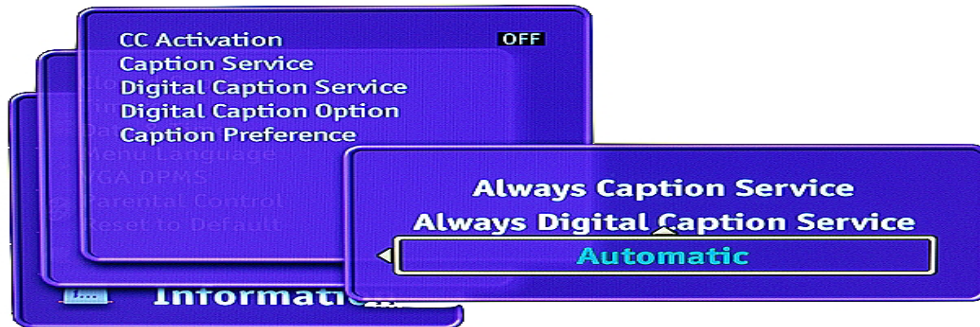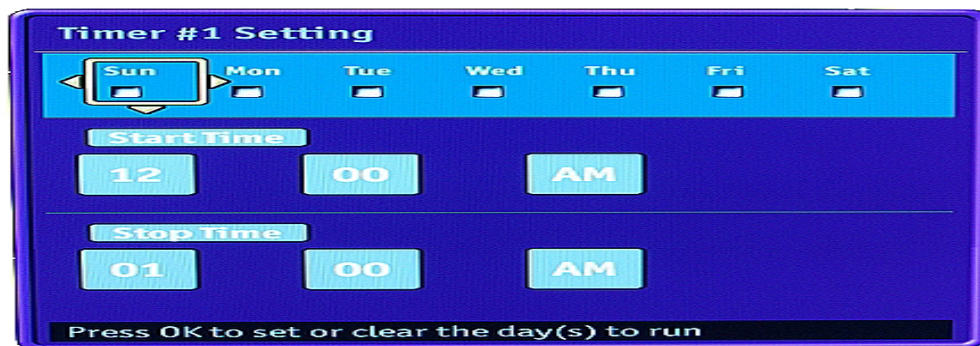| Audio > Digital Audio Language	
Option	Description
English	Set the digital audio language as English.
French	Set the digital audio language as French.
Spanish	Set the digital audio language as Spanish.

Settings	
Option	**Description**
Close Caption	Set the close caption options
Timers	Set the timers to turn on or turn off TV.
Date & Time	Set the current date and time.
Menu Language	Select the language for the On-Screen-Display menu.
VGA DPMS	Turn on/off the VGA display power management signaling.
Parental Control	Set the parental control options.
Reset to Default	Reset to default settings

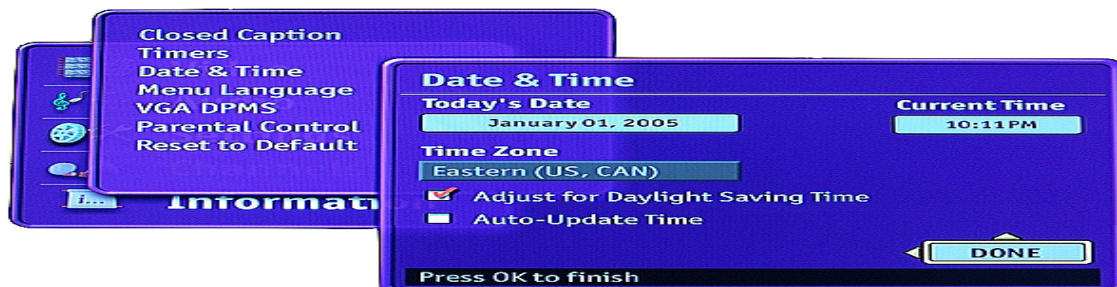| Settings > Closed Caption > Digital Caption Option	
Option	**Description**
Text Style	Select the caption text style.
Color(Text)	Set the caption text color.
Opacity(Text)	Select the caption text opacity.
Size(Text)	Select the caption text size.
Align(Text)	Select the caption text-align position.
Edge Color	Set the caption edge color.
Style	Select the caption edge style.
Background	Set the caption background color.
Opacity(Background)	Select the caption background opacity.
Frame Color	Set the caption frame color.
Opacity(Frame)	Select the caption frame opacity.

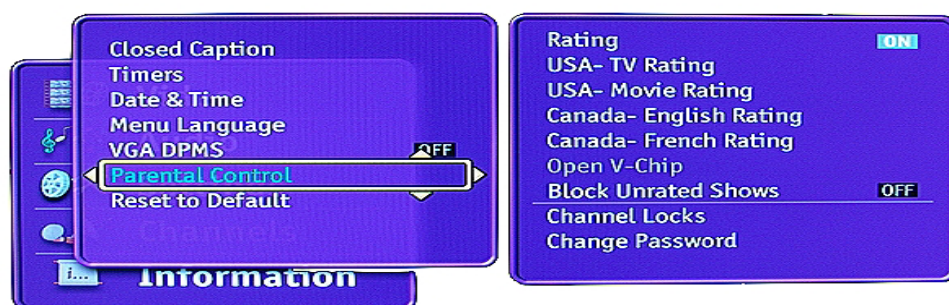| Settings > Closed Caption > Caption Preference	
Option	**Description**
Always Caption Service	Always to turn on analog caption service.
Always Digital Caption Service	Always to turn on digital caption service.
Automatic	Automatically turn on the analog or digital caption service depends on the source signal.

Settings > Timers > Timer 1/2 Setting	
Option	**Description**
Sun, Mon, Tue, Wed, Thu, Fri, Sat	Select the days in the week.
Start Time	Assign the start time
Stop Time	Assign the stop time

Settings > Date & Time

Option	Description
Today's Date	Set the date.
Current Time	Set the current time.
Time Zone	Set the time zone.
Adjust for Daylight Saving Time	Select to adjust daylight saving time.
Auto-Update Time	Automatically update the time information according to the source signal.

Settings > Parental Control

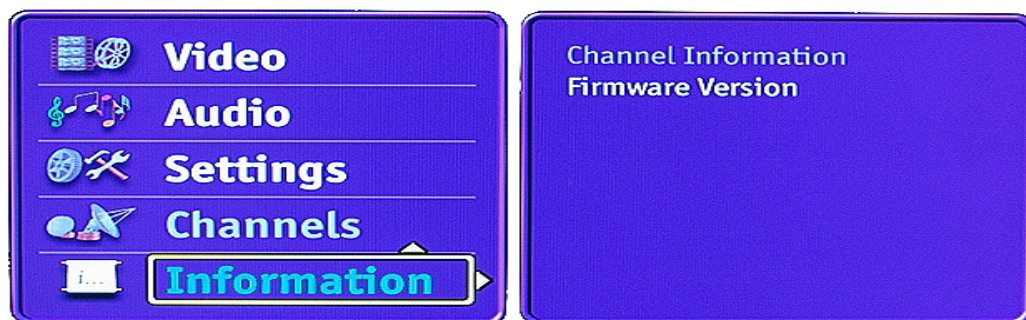| Option	Description
Rating	Turn on or turn off the custom rating.
USA-TV Rating	Select the block programs by the USA-TV rating.
USA-Movie Rating	Select the block programs by the USA-Movie rating.
Canada-English Rating	Select the block programs by the Canada-English rating.
Canada-French Rating	Select the block programs by the Canada-French rating.
Open V-chip Rating	Select the block programs by the Open V-chip rating.
Block Unrated Shows	Select to block unrated channels.
Channel Locks	Select channels to block.
Change Password	Set the password for the parental control setting.

Settings > Parental Control > USA-TV Rating	
Option	**Description**
Lock All	Lock the all rating setting.
Unlock All	Unlock the all rating setting.

Settings > Parental Control > Channel Locks	
Option	**Description**
Lock All	Lock all channels.
Unlock All	Unlock all channels.

Channels > Scan Channel	
Option	Description
Antenna	Select to scan all available channels from antenna.
Cable	Select to scan all available channels from cable.

Information	
Option	Description
Channel Information	Select to display the channel information.
Firmware Version	Select to display the firmware version.

RF signal input

Accepted formats: NTSC, ATSC-VSB, QAM64 and QAM256

3D-COMB filter applied when detected in NTSC mode.

Brightness, Contrast, Color, Tint, Sharpness and Color Temperature control, in analog NTSC and in digital mode separately.

Automatically detect NTSC, VSB, QAM64, QAM256 modes.

Color component + Audio L/R input

RCA*3 jacks (color-coded: green, blue and red) to accept 480i, 480p, 720p, 1080i input format. The 52" and 65" models also accept 1080p input format.

RCA*2 jacks (color-coded: white and red) to accept Audio L/R input.

Brightness, Contrast, Color, Tint, Sharpness and Color Temperature control, Automatic black and white level adjustment.

SVideo + Audio L/R input

S-Video jack accepts Y-C video input format.

RCA*2 jacks (color-coded: write and red) accept Audio L/R input.

Brightness, Contrast, Color, Tint, Sharpness and Color Temperature control,

CVBS + Audio L/R input

RCA jack accepts composite video input format.
RCA*2 jacks (color-coded: white and red) to accept Audio L/R input.
3D-COMB filter applied.
Brightness, Contrast, Color, Tint, Sharpness and Color Temperature control,

VGA input + Audio L/R input

15-pin D-SUB jack accepts VGA signal input or color component (480i, 480p, 720p, 1080i input format, also 1080p for 52" and 65" models) input.
OSD can switch to VGA input mode or color component input mode.
When OSD select VGA signal input, Auto-Sync without cropping, all resolutions (depends on VESA standard and up to 1280X1024), all vertical refresh rates (from 56Hz to 75Hz). AutoSync shall function with DMT, GTF, CV, and CV RB timings. The system shall not be table driven.
The preferred resolution and timing would be 1360x768 / 1920 x 1080 @ 60 Hz. Other resolutions would do scaling to fit the whole video onto the whole screen or keep the aspect ratio when in PC mode.
PC inputs (both VGA and DVI) should be displayed either 1:1 mode centered in the screen, scaled to either full height or full width of the screen with aspect ratio preserved, or scaled to fill the full screen with aspect ratio not preserved. In all cases there should be no overexpansion of PC Modes.
Brightness, Contrast, Color, Tint, Sharpness and Color Temperature control,

HDMI input

HDMI type-A jack accepts HDMI (480i, 480p, 720p, 1080i input format, also 1080p on 52" and 65" models) input or DVI (PC mode) input. HDMI input mode will support 480i, 480p, 720p, 1080i modes at least. When in PC mode, Auto-Sync without cropping, all resolutions (depends on VESA standard and up to 1280X1024), all vertical refresh rates (from 56Hz to 75Hz).
The preferred resolution and timing would be 1360x768 / 1920 x 1080 @ 60 Hz. Other resolutions would do scaling to fit the whole video onto the whole screen or keep the aspect ratio when in PC mode.
PC inputs (both VGA and DVI) should be displayed either 1:1 mode centered in the screen, scaled to either full height or full width of the screen with aspect ratio preserved, or scaled to fill the full screen with aspect ratio not preserved. In all cases there should be no overexpansion of PC Modes.
Brightness, Contrast, Color, Tint, Sharpness and Color Temperature control.

VGA / DVI Supported Modes

VESA STANDARD MODE ONLY

Resolution	fV(Hz)	
640 x 350	85	
640 x 400	85	
640 x 480	66,72,75,85	
720 x 400	70,85	
800 x 600	56,60,72,75,80	
1024 x 768	60,70,75	
1280 x 768	60	
1360 x 768	60	
1920 x 1080	60	***52" and 65" ONLY***

Digital Wireless Transmitter Kit STV-1100TX

Operation Manual

Table of Contents

Accessories Check-list:
STV-1100TX KIT(VW5)
AC Adaptor
AC power cord
 AV cable
S-Video cable
IR cable

.a. SAFETY INSTRUCTIONS

● READ INSTRUCTIONS:	● RETAIN INSTRUCTIONS
All the safety operating instructions should be read before the product is operated.	The safety and operating instructions should be retained for future reference.
● POWER SOURCES	● POWER-CORD PROTECTION
The product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer. For products intended to operate from battery power or other sources, refer to the operating instructions.	Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, sockets, and the point where they exit from the product.

● **ACCESSORIES**	● **VENTILATION**
Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.	Openings in the unit are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacture's instructions have been adhered to.
● **READ INSTRUCTIONS:**	● **RETAIN INSTRUCTIONS**
All the safety operating instructions should be read before the product is operated.	The safety and operating instructions should be retained for future reference.
● **POWER SOURCES**	● **POWER-CORD PROTECTION**
The product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer. For products intended to operate from battery power or other sources, refer to the operating instructions.	Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, sockets, and the point where they exit from the product.
● **ACCESSORIES**	● **VENTILATION**
Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.	Openings in the unit are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacture's instructions have been adhered to.

● WATER AND MOISTURE	● CLEANING
Do not use this product near water. For example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool and the like.	Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a soft cloth for cleaning.
● ATTACHMENT	● OVERLOADING
Do not use attachments not recommended by the product manufacturer as they may cause hazards.	Do not overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
● LIGHTNING STORMS	● OBJECT AND LIQUID ENTRY
For added protection for this product during storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power-line surges.	Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
● SOURCE OF LIGHT	● SERVICING
Do not look into the lens while the lamp is on. The strong light from the lamp may cause damage to your eyes or sight.	Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

b. SAFETY INSTRUCTION
1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet. Consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs. Convenience receptacles and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13) Unplug this apparatus during lightning storms or when unused for long periods of time.

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Chapter 1 Product Overview

The Wireless Video Wave Module (STV-1100) product delivers video and audio using wireless WLAN 802.11a at 5GHz as a media stream, which is a multiplexed and compressed signal, from the STV-1100TX to the HDTV.
The VW-5TX is used on the video source side, such as a DVD, VCR, PVR, STB or BS. The VW-5RX is used on the display side, usually a standard TV, flat screen or video monitor. In addition IR remote control function makes it easy to operate.

It employs WLAN bit rates of 6Mbps, 12Mbps and 24Mbps and video bit rates of 4Mbps, 8Mbps and 14Mbps are supported. It also provides automatic adaptation of video bit rate and WLAN bit rate, or fixed video and WLAN bit rate. This product offers security-enhanced features, with communication authenticated and the media stream is encrypted for secure use.

When used inside, it is possible to transmit/receive up to approx. 50m in open spaces and 30m in places separated by two typical office/home walls.

- *Other characteristics*
  - *Transfer speed adaptive capability allows stable image transmission and avoids interruption even in varying reception conditions.*
  - *Automatic hopping function for optimum channel selection up to 4Ch's*
  - *NTSC/PAL/SECAM automatic recognition and operation function*
  - *Multiple VW-5RX can be pair linked with one VW-5TX*
    - ※ *However, LAN link is always one to one, so it prioritizes the first recognized RX communication.*
  - *AES standard adoption enables high security level contents encryption and protection*

    - ※ *Above transmission distance is approximate (an estimate) and the condition may vary depending on wall materials, surroundings, electrical activity etc.*
    - ※ *If more than 4 sets are used adjacent, they might interfere with each other and video image may stop (freeze).*
    - ※ *If it is placed near a TV etc, the TV image can be interrupted. Please keep away from devices such as TVs if this happens.*
    - ※ *At places with a lot of 5GHz wireless LAN devices in operation and communication can be influenced and images may be more interrupted.*
      Signal *reception may be effected according to the position, height and angle of placement. If reception is not stable, please look for the best condition.*
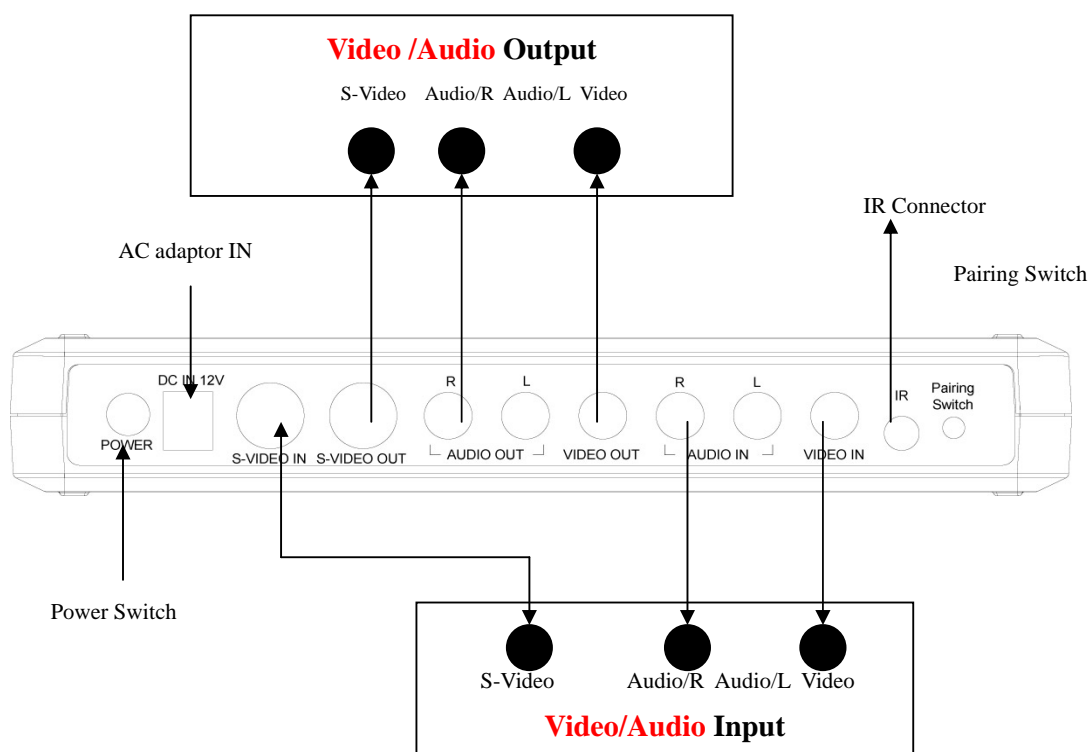
Chapter 1 Getting Started

1.1 Wireless Transmitter unit

1.2.1 TX Front Panel View

Power LED   TX LED
Link LED   RX LED

◆ **POWER LED**	Power ON/OFF status: ✧ Green light: Unit is ON ✧ No light: Un it is OFF
◆ **LINK LED**	Indicates link status: ✧ Slow blinking : searching for RX unit ✧ Fast blinking: found RX and connecting ✧ ON: connection and authentication completed
◆ **TX LED**	Indicates transmit speed: ✧ Fast blinking: high rate ✧ Middle blinking: middle rate ✧ Slow blinking: low rate

1.2.2 TX Rear Panel View

Video /Audio Output

S-Video   Audio/R Audio/L Video

IR Connector

AC adaptor IN

Pairing Switch

DC IN 12V   R   L   R   L   IR   Pairing Switch

POWER   S-VIDEO IN S-VIDEO OUT   └ AUDIO OUT ┘   VIDEO OUT   └ AUDIO IN ┘   VIDEO IN

Power Switch

S-Video   Audio/R Audio/L Video

Video/Audio Input

◆ Power Switch	Press the power button to turn the power ON/OFF
◆ DC IN	Connect the DC-in from the supplied AC adaptor here
◆ S-VIDEO IN	Connect the S-Video cable here if the input source - DVD, VTR etc has an S-Video out.
◆ S-VIDEO OUT	This is a through signal of the S-Video IN
◆ Audio OUT	This is a through signal of the Audio IN
◆ Video OUT	This is a through signal of the Composite Video IN
◆ Audio In	Connect the Input source Audio in using supplied AV cable
◆ Video In	Connect the Input source Video in using supplied AV cable
◆ IR Connector	If remote control is required connect the supplied IR cable here.
◆ Pairing SW	Pairing setup (see later instructions)

NOTE: The IR function enables the user to control the DVD (or other video source) even when the TV and the DVD are not in the same room. The user can use the DVD's remote control unit by pointing the remote control at the IR receiver located at the VW-5RX. The IR signals are conveyed by wireless signal to the VW-5TX.

Chapter 2 Setup Menus

The following lists a step by step set-up procedure.

Step 1~4 STV-1100TX Transmitter Unit

Step 1   Connect power cord
Connect power cord to AC adaptor.
Attach AC adaptor to DC IN jack on VW-5TX unit.

Step 2   Power On
Press the power button on the rear to turn the power ON.

Step 3 Connect video sources
Connect your Video device (DVD, VAR, PVR, STB or BS) using the supplied S-Video or AV video cable

Step 4 Video Input
Connect AV cable to video input jack and/or connect S-Video cable to S-Video IN jack on the VW-5TX unit. If both signals are available the S-Video will be the priority and used due to its higher quality.
IR Function
If you require use of a remote control connect the included IR cable at the back of the VW-5TX unit. Then locate the LED head module of the cable in front of the usual IR receive point of the input source (e.g. DVD player, cable box)

Use your DVD (or other video source) remote control by pointing at the IR receiver window located the front panel of VW-5RX unit.

Chapter 3 Main Specifications

VW-5 System
1, IEEE802.11a (5.2G)
4, MPEG2 Encoder and Decoder built in
5, Adaptive transmission (24Mbps, 12Mbps, 6Mbps)
6, Adaptive Video rate (14Mbps, 8Mbps, 4Mbps)
7, Automatic Error recovery
8, Small constant latency (less than 0.4-0.6s)
9, AES content protection

Wireless LAN Interface	
Standard	IEEE802.11a　(ARIB STD-T71)
Transmission method	Orthogonal Frequency Division Multiple Modulation (OFDM)
Frequency area	5,150 ~ 5,250MHz (4ch) Auto-select
	5,150 ~ 5,350MHz (8ch) Auto-select　U.S. Spec
Data transfer speed	6/12/24Mbps　Auto Switch
Encryption	AES Encryption
Transmission power (max)	Japan：　180mW/18MHz
	U.S. :　　50mW/20MHz
	Europe：　200mW/20MHz *1
Reception sensitivity	-74dBmW type.

1　: Max power setting is ruled by the 802.11a regulation of each country.

■STV-1100TX

（Transmission side）　Specification

Video	
Video Signal	NTSC Auto detection
Composite Input	1.0Vpp/75Ω
S-Video Input	1.0Vpp/75Ω(Y), 0.28Vpp/75Ω(C)
Composite Output	1.0Vpp/75Ω
S-Video Out	1.0Vpp/75Ω(Y), 0.28Vpp/75Ω(C)
Audio Input	5.66Vpp(2.0Vrms) max （with 20Kωload）
Audio Output	2.0Vpp(0.7Vrms) max （with 100Kωload）
Compression/Expansion method	MPEG-2
MPEG Bit rate	4/8/14Mbps　Auto Switch

Infrared Ray Remote Controller	
Signal carrier frequency	38KHz
In/Out Connector	
Video Input	RCA pin (Composite), S connector
Video Output（Through output）	RCA pin (Composite), S connector
Audio Input	RCA pin L/R
Audio Output（Through Output）	RCA pin L/R
IR Cable	Mini Jack
Others	
Size	Width 220mm , Depth 150mm, Height 45mm
Weight	390g (only main body)
Power supply（AC adaptor）	AC in ： 100-240V 50/60Hz 1.0A DC out： 12V(±5%) 2.5A
Power consumption	Max approx. 6.5W
Operation environment	Temperature 0-35　Humidity 20-80% (No Dew)
Approved Standard	TELEC, FCC part15, CE

Chapter 4　Inputs/Outputs
VIDEO INPUT:
1. STV-1100TX supports the following video inputs:
   - ■　Composite video input
   - ■　S-Video input
   - (1) User may choose either input type, usually determined by the connection available from the input video source device.
   - (2) The video input is selected by automatic detection of a video signal at one of the inputs. If the two inputs become active simultaneously, the order of precedence is: S-Video, Composite Video.

2. The video standard accepted by the VW-5TX is set by automatic detection of the video standard (NTSC).
3. Video standard supports the following video inputs: NTSC-M, NTSC-Japan, PAL[BGHI], SECAM.

4. This product supports the following VBI signals:
   - ■ NTSC WSS (also known as CGMS or WSS525).
   - ■ Macrovision (NTSC ONLY)

   The VBI signals are accepted at the video inputs and transferred to the video outputs.

5. The system support NTSC closed caption signals. The CC signals are accepted at the video inputs and transferred to the video outputs.

6. The system is capable of accepting and outputting black and white signal (no

colour component present).

AUDIO INPUT
1. STV-1100TX supports an analog stereo audio input, consisting of left and Right audio channels.

VIDEO OUTPUT
1. STV-1100RX supports the following video outputs:
   - Composite video output
   - S-Video output

2. The two outputs are active simultaneously.

3. Video standard output NTSC is the same standard as the video input used.

4. Video standard supported on video outputs:
   NTSC/480I

5. Support of the VBI signals:
   - NTSC WSS (also known as CGMS or WSS525)
   - Macrovision NTSC

6. Support of NTSC closed Caption signals

AUDIO OUTPUT
1. STV-1100RX supports an analog stereo audio output, consisting of Left and Right audio channels.

Chapter 5 Pairing & Others

PAIRING (MATCHING) INSTALLATION
1. The STV1100 is already supplied paired (matched) from the factory.
2. If needed users can also pair manually using the following steps:
   - Supply power to and switch on both STV-1100TX and PANTEL HDTV
   - Connect the IR remote control cable to the back of the STV-1100TX
   - Position the units so the IR cable LED head from the STV-1100TX is directed in front of the IR receiver window of the PANTEL HDTV
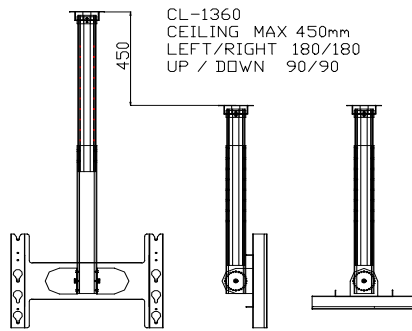   - Then press the pairing button at the rear of the STV-1100TX for at least 2 second.

OTHERS
- Product Dimensions: 220(w) x 150(d) x 45(h) mm
- Power Adaptor: Input: AC100~240V 50/60Hz 1.0A
                                Output: DC12V 2.5A
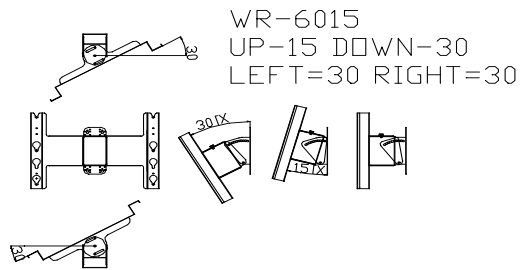- Operation Temp: 0~40 degree C
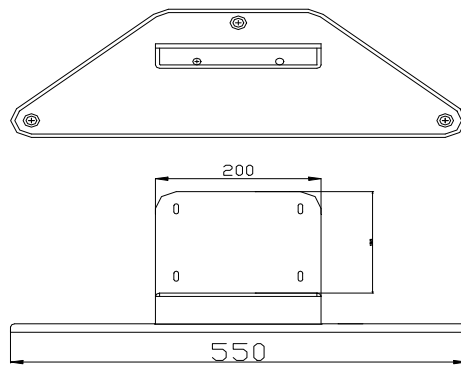- This product is for indoor use only.

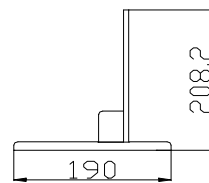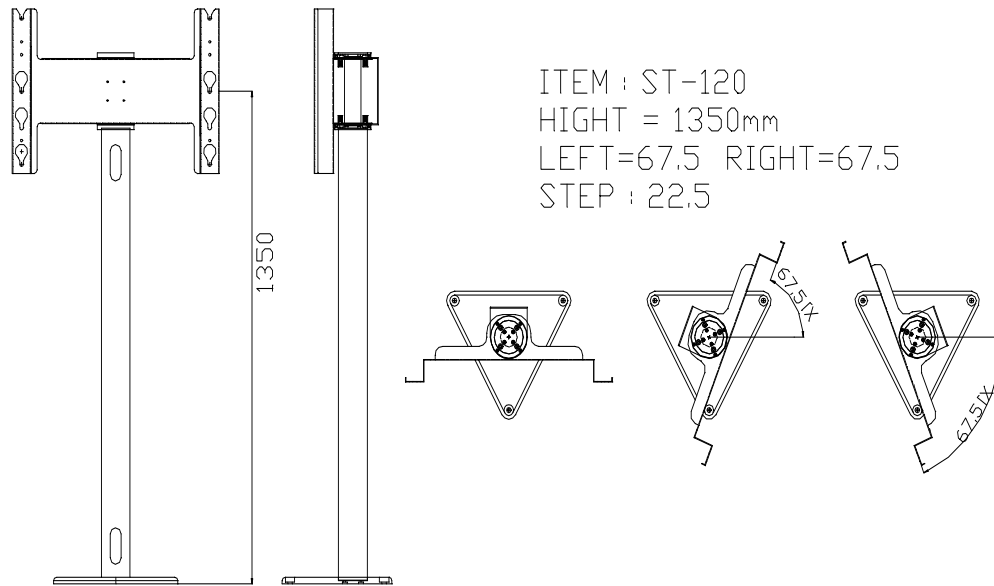**Optional Accessories:**

CL-1360   Ceiling Mount

CL-1360
CEILING MAX 450mm
LEFT/RIGHT 180/180
UP / DOWN   90/90

450

WR-6015 Wall Mount

WR-6015
UP-15 DOWN-30
LEFT=30 RIGHT=30

AS-320 Table-top Stand

AS-320 STAND

200

550

190

208.2

ST-120 Floor Mount Stand

1350

ITEM : ST-120
HIGHT = 1350mm
LEFT=67.5 RIGHT=67.5
STEP : 22.5

67.5˚X

67.5˚X

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